WHAT IS CLAIMED IS:

1. A method for establishing a connection between a receiver and a transmitter, located at a distance from each other, comprising the steps of:

sending lightwaves carrying data signals and beacon light from the transmitter,

using an acquisition receiver for acquiring the lightwaves in the receiver,

generating acquisition sensor signals from the received lightwaves in the receiver,

wherein, the lightwaves conducted in the receiver are fed to a beam splitter, an acquisition sensor and a scanning device, and

by means of the scanning device, an additional signal is obtained, which is used to make acquisition easier.

2. The method in accordance with claim **1**,

wherein light from the scanning is conducted over a first lightwave fiber to a diplexer, and light is split off from this diplexer and conducted to a detector over a second lightwave fiber, which provides an additional signal for making acquisition easier.

3. The method in accordance with claim **2**,

wherein light, which arrives via the first lightwave fiber and the diplexer, is also conducted to an optical waveguide coupler, in which this light, and light from a local laser conducted through a third lightwave fiber, are mixed, wherein the mixed light is split into two parts, each of which reaches a further detector via respective further lightwave fiber for generating at least one error signal.

4. A device for establishing a connection between a receiver and a transmitter, comprising:

a receiver telescope and a fine alignment mechanism with a beam splitter, which beam splitter is designed to provide light via optical means to an acquisition sensor, as well as to a scanning device, and,

with the aid of the scanning device, both a useful signal, and an additional signal, which is effective independently of or together with the acquisition sensor signal in the acquisition phase, are obtained.

5. The device in accordance with claim **4**,

wherein the scanning device is connected via a first lightwave fiber with a diplexer, downstream of which a detector is connected via a second lightwave fiber and provides an additional signal for making acquisition easier.

6. The device in accordance with claim **5**,

further comprising an optical waveguide coupler, whose input is connected via a third lightwave fiber with the diplexer and which, with coherent heterodyne reception, mixes light arriving from the diplexer and light from a local laser, conducted over a fourth lightwave fiber, and split into two parts, which reach a detector via a respective further lightwave fiber for generating at least one error signal.

7. The device in accordance with claim **5**, further comprising a first detector connected with a discriminator, which delivers an additional signal to a system control.

8. The device in accordance with claim **7**,

further comprising a second discriminator, connected downstream of said detector, which delivers at least one error signal to said system control.

9. The device in accordance with claim **7**,

wherein the scanning device is connected to a control, which provides command signals for a discriminator.

10. The device in accordance with claim **4**,

wherein the receiver telescope is connected to the system control by means of a **CPA** control or an **FPA** control.